Succinic acid, cyclohexylmethyl 2-methoxyethyl ester

Inchi: InChI=1S/C14H24O5/c1-17-9-10-18-13(15)7-8-14(16)19-11-12-5-3-2-4-6-12/h12H,2-11H

InchiKey: USYVFSYSGOZHKE-UHFFFAOYSA-N

Formula: C14H24O5

SMILES: COCCOC(=O)CCC(=O)OCC1CCCCC1

Mol. weight [g/mol]: 272.34

Physical Properties

Property code	Value	Unit	Source
gf	-481.39	kJ/mol	Joback Method
hf	-899.79	kJ/mol	Joback Method
hfus	30.61	kJ/mol	Joback Method
hvap	67.91	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.080		Crippen Method
mcvol	218.010	ml/mol	McGowan Method
pc	1920.30	kPa	Joback Method
rinpol	1967.00		NIST Webbook
rinpol	1967.00		NIST Webbook
tb	714.27	K	Joback Method
tc	912.84	K	Joback Method
tf	421.47	K	Joback Method
vc	0.819	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	645.13	J/mol×K	714.27	Joback Method
cpg	662.57	J/mol×K	747.36	Joback Method
cpg	678.94	J/mol×K	780.46	Joback Method
cpg	694.24	J/mol×K	813.55	Joback Method
cpg	708.46	J/mol×K	846.65	Joback Method
cpg	721.61	J/mol×K	879.74	Joback Method
cpg	733.67	J/mol×K	912.84	Joback Method
dvisc	0.0012192	Pa×s	421.47	Joback Method

dvisc	0.0006410	Pa×s	470.27	Joback Method
dvisc	0.0003803	Pa×s	519.07	Joback Method
dvisc	0.0002468	Pa×s	567.87	Joback Method
dvisc	0.0001715	Pa×s	616.67	Joback Method
dvisc	0.0001257	Pa×s	665.47	Joback Method
dvisc	0.0000961	Pa×s	714.27	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390742&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume